

Appl. No. 10/734,006
Amtd. dated December 27, 2007
Reply to Office Action of July 27, 2007

Recitation of the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A biodegradable nonwoven web prepared from a polymer blend comprising from about 65% by weight to about 99% by weight of a biodegradable aliphatic polyester polymer and from about 1% by weight to about 35% by weight of a second polymer which is amorphous and is selected from the group consisting of a polymer having a lower melting point than the aliphatic polyester polymer, a polymer having a lower molecular weight than the aliphatic polyester polymer and mixtures thereof and wherein the second polymer comprises a polyalphaolefin.
2. (Previously Presented) The biodegradable nonwoven web of claim 1, wherein the aliphatic polyester comprises at least one polymer selected from polyhydroxy butyrate (PHP), polyhydroxy butyrate-co-valerate (PHBV), polycaprolactane, polybutylene succinate, polybutylene succinate-co-adipate, polyglycolic acid (PGA), polylactide or polylactic acid (PLA), polybutylene oxalate, polyethylene adipate, polyparadioxanone, polymorpholineviones, or polydioxipane-2-one.
3. (Original) The biodegradable nonwoven web of claim 2, wherein the aliphatic polyester comprises a polylactide.
4. (Original) The biodegradable nonwoven web of claim 3, wherein the polylactide comprises a poly(L-lactide) having a D-isomer, if present, in an amount less than 3%.
5. (Original) The biodegradable nonwoven web of claim 4 wherein the polylactide comprises a poly(L-lactide) having a D-isomer, if present, in an amount less than 2%.
6. (Canceled)

Appl. No. 10/734,006
Amtd. dated December 27, 2007
Reply to Office Action of July 27, 2007

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Original) The biodegradable nonwoven web of claim 1, wherein the nonwoven web is a meltblown nonwoven web, a spunbond nonwoven web, a bonded carded web or an airlaid nonwoven web.

11. (Original) The biodegradable nonwoven web of claim 10, wherein the nonwoven web is a spunbond nonwoven web.

12. (Original) The biodegradable nonwoven web of claim 1, wherein the nonwoven web comprises multicomponent fibers, wherein at least a portion of an outer surface of the multicomponent fibers comprises the polymer blend.

13. (Currently Amended) The biodegradable nonwoven web of claim 1, wherein the nonwoven web is a spunbond nonwoven web, the biodegradable polymer comprises a polylactide having a D-lactide isomer content less than about 3% by weight, based on the weight of the polylactide, the second polymer comprises a polyalphaolefin, and the blend comprises from about 85 -98 % by weight of the polylactide and from about 2-15 % by weight of the polyalphaolefin second polymer.

14. (Currently Amended) The biodegradable nonwoven web of claim 1, wherein the nonwoven web is a spunbond nonwoven web, the biodegradable polymer comprises a polylactide having less than about 3% by weight of a D-lactide isomer, the second polymer comprises a polylactide having a D-lactide isomer content in the range of about 3-9% by weight, based on the weight of the polylactide, and the blend comprises from about 65-75 % by weight of the polylactide and from about 25-35 % by weight of the polyalphaolefin second polymer.

Appl. No. 10/734,006

Amdt. dated December 27, 2007

Reply to Office Action of July 27, 2007

15. (Original) A personal care product comprising the nonwoven web of claim 1 as a component of the product.

16. (Original) The personal care product of claim 15, wherein the personal care product is a diaper.

17. (Original) The personal care product of claim 15, wherein the personal care product is a feminine hygiene pad.

18. (Original) The personal care product of claim 15, wherein the personal care product is a training pant.

19. (Original) A medical garment comprising the nonwoven web of claim 1.

20. (Original) The medical garment of claim 19, wherein the medical garment is a gown.

21. (Original) The medical garment of claim 19, wherein the medical garment is a face mask.

22. (Original) A sterile wrap comprising the nonwoven web of claim 1.

23. (Original) A wiper comprising the nonwoven web of claim 1.

24. (Original) A filter comprising the nonwoven web of claim 1.

25. (Currently Amended) A method of increasing the tear strength of a biodegradable nonwoven web prepared from a biodegradable aliphatic polyester polymer, said method comprising the steps of forming a blend of a biodegradable aliphatic polyester polymer and a polymer which is amorphous and is selected from the group consisting of a polymer having a lower melting point than the biodegradable aliphatic polyester polymer, a polymer having a lower molecular weight

Appl. No. 10/734,006

Amdt. dated December 27, 2007

Reply to Office Action of July 27, 2007

than the biodegradable aliphatic polyester polymer and mixtures thereof and wherein the second polymer comprises a polyalphaolefin with the biodegradable aliphatic polyester polymer; forming a nonwoven web from the blend; and bonding the nonwoven web.

26. (Currently Amended) A fiber from a polymer blend comprising from about 65% by weight to about 99% by weight of a biodegradable aliphatic polyester polymer and from about 1% by weight to about 35% by weight of a second polymer which is amorphous and is selected from the group consisting of a polymer having a lower melting point than the aliphatic polyester polymer, a polymer having a lower molecular weight than the aliphatic polyester polymer and mixtures thereof and wherein the second polymer comprises a polyalphaolefin.

27. (Original) The fiber of claim 26, wherein the fibers is a staple fiber.

28. (Original) The fiber of claim 26, wherein the fiber is a substantially continuous filament.